

**Amendments to the Abstract:**

Please replace the "Abstract of the Disclosure" with the following new Abstract:

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"A digital LBO includes, in part, a memory, a selection circuit, and a digital-to-analog converter. The memory is configured to store digitized versions of signal waveforms. The selection circuit is configured to allow the selection of certain ones of the waveforms corresponding to anticipated amount of signal degradation over a transmission line. The digital-to-analog converter is configured to convert the selected waveforms into analog waveforms for transmission. The digital LBO may further include a counter which is configured to sequentially select multiple samples of the digitized waveforms during a period. A combining circuit optionally included in digital LBO is configured to combine a portion of at least one previous digitized waveform with a portion of a current digitized waveform."

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